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(57) Abstract: The present invention relates to an analysis apparatus, in particular a spectroscopic analysis apparatus, for blood analysis on vessels. An excitation system (exs) emits an excitation beam to excite a target region. A detection system (dsy) is provided for detecting and analyzing scattered radiation from the target region. Those areas are selected or predetermined so that only scattered radiation from blood in capillaries having a diameter below a predetermined diameter value and/or including an amount of red blood cells below a predetermined cell amount is analyzed. Thus, in contrast to analysis on whole blood or large amounts of blood cells less reabsorption and scattering of Raman light due to red blood cells is obtained. Further, the possibility to directly measure in the blood plasma without interference of the red blood cells, thereby yielding a higher signal-to-noise ratio, is given.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.